

**WHAT IS CLAIMED IS:**

1. An immunogenic composition comprising NmC oligosaccharide conjugated to a first carrier and NmB outer membrane protein.
2. The immunogenic composition of claim 1 wherein said first carrier is selected from the group consisting of protein, polysaccharide, polylactic acid, polyglycolic acid, polymeric amino acids, amino acid co-polymer, lipid aggregate, and inactive virus particle.
3. The immunogenic composition of claim 2 wherein said first carrier is a protein.
4. The immunogenic composition of claim 3 wherein said first carrier is CRM<sub>197</sub>.
5. The immunogenic composition of claim 1 the NmB outer membrane protein is presented as proteoliposomic vesicles.
6. The immunogenic composition of claim 1 wherein said composition comprises a second carrier.
7. The immunogenic composition of claim 6 wherein said second carrier is aluminum hydroxide or MF59.
8. A method of inducing an immunologic response to NmB and NmC comprising administering an immunologically effective amount of an immunogenic composition of claim 1.
9. The method of claim 8 wherein said first carrier is selected from the group consisting of protein, polysaccharide, polylactic acid, polyglycolic acid, polymeric amino acids, amino acid co-polymer, lipid aggregate, and inactive virus particle.
10. The method of claim 9 wherein said first carrier is a protein.

11. The method of claim 10 wherein said first carrier is CRM<sub>197</sub>.
12. The method of claim 8 the NmB outer membrane protein is presented as proteoliposomic vesicles.
- 5 13. The method of claim 8 wherein said composition comprises a second carrier.
14. The method of claim 13 wherein said second carrier is aluminum hydroxide or MF59.
- 10 15. A vaccine comprising an immunogenic composition of any one of claims 1-7.
16. A method of vaccinating an individual comprising administering to said individual an immunogenic composition of any one of claims 1-7.

ORIGINAL  
FILING  
DATE  
1999/05/10

ad 72